

Model : K3852(NSA1000) MAIN PCB

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Electrical Key Devices Description

Desig	Type	Parts Name	Description
F100	CF	DFYGR836CR881NHA	Duplexer
F102	SAW	EFCH86MMQW2	86.46MHz BPF
F201	SAW	EFCH836MMTE3	836.5 +/-12.5MHz BPF
F202	CPL	LDC15B140J0836	Carrier Detector
Q101	TR	2SC5508	RX RFA
Q121	TR	2SC5186	RX 1 ST Mixer
Q131	TR	2SC4187	1 st IFA
Q171	TR	2SC4187	14.4MHz to 86.40MHz Multiplier
Q701	TR	UMC2N	Switch for TX VCO
Q607	TR	DTC114EEA	Switch for TX Power Amp.
Q501	TR	2SB1188T100Q	Switching Regulator
Q604	TR	NE5500179A	TX Final Power Amplifier
Q603	TR	2SC5288	Driver for TX Power Amplifier(Q604)
Q605	TR	2SC4617	Biassing for Q603
Q606	TR	DTA123YEA	Switch for power supply of Q603,604, U201(TX pre-amp) and U241(APC)
Q607	TR	DTC114EEA	Inverter and Driver for Q606
U101	IC	TA31181FN	RX 2 nd Mixer and 2 nd IFA & Detector
U201	IC	UPC2771T	TX Pre-Amplifier and Buffer
U241	IC	BA10358FV	APC Loop Amplifier
U900	IC	MB15F07SL-BCC	TX and RX Synthesizer
U506	IC	TK11136S	3.6V Regulator for Analog Section
U505	IC	TK11136S	3.6V Regulator for Digital Section
U501	IC	AK2336	Audio Base Band Processor
U504	IC	HD64F3048XI16	CPU, ROM 128KB flash, RAM 4KB
U502	IC	S80827AN	Voltage Detector (system Reset)
U503	IC	AT24C32N	EEPROM, 32 Kbit
U507	IC	NJM236AM-TE1	Switching Regulator

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Electrical Key Device Description

Desig	Type	Parts Name	Description
D241	PIN	1SS345	TX Power Detector
D501	DI	DA221-TL	Temperature sensor (option)
D502	DI	RB705D	Biassing for Flash ROM Writer
D503	DI	RB060L-40TE25	Switching Regulator
D504	DI	RB060L-40TE25	Switching Regulator
X451	XTAL	TCX-TTS10V	X'tal for TCXO
X911	VCO	MQH-004-967	RX VCO
X931	VCO	MQE-918-836-T7	TX VCO
CN501	CN	FX6-50P-0.8SV	Interface Connector to External Devices
J100	CN		SMA CONNECTOR

Terminology for "Type"

CF: Ceramic Filter
SAW: Surface Acoustic Wave filter
TR: Transistor
IC: Integrated Circuit
DI: Diode
PIN: PIN(Positive-Intrinsic-Negative) diode
VD: Varactor Diode
VCO: Voltage Controlled Oscillator
XTAL: Quartz oscillation element
RTH: Temperature sensitive resistor
CN: Connector
CPL: Coupler